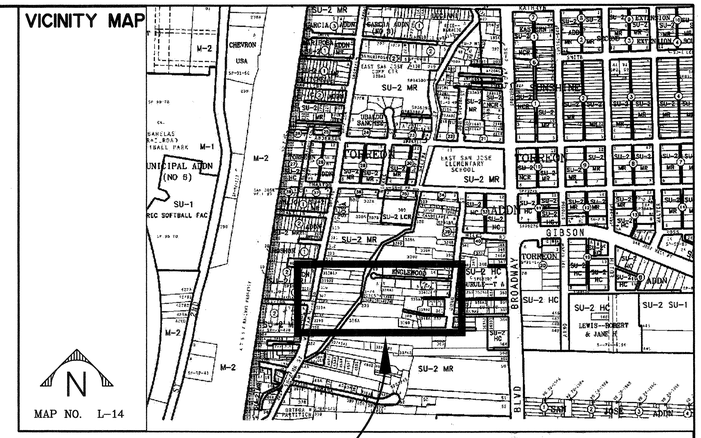
574490

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
PLANS FOR CONSTRUCTION

ETHLYN AVENUE IMPROVEMENTS

INDEX TO DRAWINGS

VICINITY MAP



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260-1990

SEC JOB # 198683
Smith Engineering Company
A Full Service Engineering Company
4600 Sphere Boulevard, S.E. Suite 4000 Albuquerque, New Mexico 87110

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE

APPROVED	ENGINEER	DATE
DRC Chairman		
Transportation		
Water/Wastewater		
Hydrology		
C I P		
Constr. Mngmt.		

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

PROJECT NUMBER 5744.90

SHEET 1 OF 10

N:\198683\OPTION1\01cover.dwg Fri Jan 21 12:51:17 2000 Michael J. Riordan

1 THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY CONSTRUCTION COORDINATION DIVISION. TWO (2) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS.

2 THE CONTRACTOR WILL NOTIFY THE FIELD ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE FIELD ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE ONLY BY THE FIELD ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS.

3 THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1994 EDITION, UPDATE NO.6.

4 ALL NEW MANHOLES SHALL BE TYPE "C" (COA DWG. 2107) UNLESS OTHERWISE NOTED ON THE PLANS.

5 THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

6 ALL WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.

7 SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.

8 THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF THE CITY OF ALBUQUERQUE OF SPECIFICATIONS.

9 ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

10 ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.

11 THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT WILL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. SEE SECTION 18 "UTILITIES", CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.

12 WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING STREETS, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.

13 ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR WILL COORDINATE THROUGH CITY UTILITY COORDINATOR.

14 WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE CITY FIELD ENGINEER.

15 THE CONTRACTOR WILL NOTIFY THE UTILITY COMPANIES BY CALLING NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.

16 CONTRACTOR WILL MAKE ALL WATER VALVES AND MANHOLES ACCESSIBLE TO THE CITY AT ALL TIMES.

17 CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 8 FEET IN WIDTH OR WIDER.

18 ALL SUBGRADE AND SUBBASE MATERIAL ENCOUNTERED IN PAVEMENT REMOVAL AND REPLACEMENT THAT IS DETERMINED BY THE FIELD ENGINEER TO MEET THE SPECIFICATIONS, CAN BE REUSED. HOWEVER, THE MATERIAL WILL BE PROCESSED AND COMPACTED TO MEET MOISTURE CONTENT AND PERCENT COMPACTING REQUIRED BY THE SPECIFICATIONS.

19 CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC. WITHOUT PRIOR APPROVAL FROM THE CITY FIELD ENGINEER.

20 CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.

21 ALL WATER VALVES AND FIRE HYDRANTS REMOVED TO BE SALVAGED AND RETURNED TO THE CITY OF ALBUQUERQUE.

22 MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 16 INCHES. BEDDING MATERIAL SHALL BE CLASS II, III, OR IV UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.

23 MINIMUM BOTTOM WIDTH OF TRENCHES FOR NON-RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 12 INCHES. BEDDING MATERIAL SHALL BE CLASS I, II, OR III.

24 THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.

25 ALL STRUCTURAL CONCRETE TO BE 4000 PSI UNLESS OTHERWISE NOTED ON PLANS.

26 ALL REINFORCING STEEL TO BE GRADE 60.

27 ALL EXPOSED EDGES ON CAST-IN-PLACE CONCRETE STRUCTURES WILL HAVE A 1" CHAMFER UNLESS OTHERWISE NOTED.

28 ALL SPLICES IN REINFORCING STEEL TO BE 2-FOOT 6-INCH MINIMUM UNLESS OTHERWISE NOTED.

29 PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR WILL NOTIFY THE CITY FIELD ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

30 THE REPLACEMENT OF THE EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE FINAL PAVEMENT WORK STARTS IN EACH AREA. TEMPORARY STRIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MAINTENANCE OF THE TEMPORARY PAVING AND STRIPING WILL BE AT THE CONTRACTOR'S EXPENSE.

31 TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE CITY FIELD ENGINEER.

32 THE CONTRACTOR WILL CONTACT THE CITY OF ALBUQUERQUE TRAFFIC DIVISION (764-1599), ONE (1) WEEK IN ADVANCE OF ANY CHANGES REQUIRED IN THE TRAFFIC SIGNALIZATION OF THIS PROJECT. ALL WORK ASSOCIATED WITH NEW TRAFFIC SIGNALIZATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

33 ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.

34 PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. ROAD SHALL NOT BE OPENED TO TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

35 ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE CITY FIELD ENGINEER.

36 THE CONTRACTOR WILL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS. A CONTRACT EXTENSION MAY BE ALLOWED AS DELINEATED IN CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.

37 ALL CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY WILL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

38 EXISTING MEDIAN CURB AND GUTTER AND STANDARD CURB AND GUTTER, NOT DISTURBED BY CONTRACTOR, BUT OUT OF ALIGNMENT, DISPLACED VERTICALLY, BADLY BROKEN AND/OR DETERIORATED, WILL BE REPLACED AS DIRECTED BY THE CITY FIELD ENGINEER AND PAID FOR AT CONTRACT UNIT PRICES.

39 ALL TRAFFIC CONTROL DEVICES REQUIRED FOR DRIVEWAY CLOSURES, UTILITY CONSTRUCTION OR FOR OTHER REASONS AND NOT SHOWN ON THE SIGNING PLANS WILL BE FURNISHED BY THE CONTRACTOR. PRIOR TO PLACING THE TRAFFIC CONTROL DEVICES, THE CONTRACTOR WILL NOTIFY THE AFFECTED OWNERS IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR MUST MAKE PROVISIONS TO PROVIDE ACCESS TO PROPERTIES. REFER TO SECTION 19 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS.

40 ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, WILL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS WILL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES WILL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.

41 THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING COA INFRASTRUCTURE (C & G, PAVING, ETC.) DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND WILL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE WILL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.

42 ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

43 STATIONS OF STORM DRAIN INLETS ARE TO THE CENTER OF GRATE UNLESS OTHERWISE NOTED ON THE PLANS.

44 SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.

45 THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.

46 ALL STORM DRAIN AND CONNECTOR PIPE WILL BE EITHER DUCTILE IRON, CLASS 250 OR HIGH DENSITY POLYETHYLENE PLASTIC PIPE. CONTRACTOR SHALL CONFORM TO ALL SPECIFICATIONS OF THE MANUFACTURER FOR THE INSTALLATION OF THE DUCTILE IRON OR PLASTIC STORM DRAIN PIPE. REFER TO SECTION 121 OF THE CITY OF ALBUQUERQUE STANDARDS FOR PLASTIC PIPE ANS SECTION 129 FOR THE DUCTILE IRON PIPE.

47 THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.

48 CONTRACTOR WILL SURVEY AND LOG EXISTING ELEVATIONS OF CURB-AND-GUTTER, SIDEWALK, AND PAVEMENT WHICH WILL BE REMOVED FOR CONSTRUCTION OF IMPROVEMENTS. CONTRACTOR WILL REPLACE REMOVED CURB-AND-GUTTER, SIDEWALK, DRIVE PADS, AND PAVEMENT TO ELEVATIONS PRIOR TO REMOVAL UNLESS OTHERWISE INDICATED ON THE PLANS.

49 CONTRACTOR WILL CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS DIRECTED BY THE COA ENGINEER TO PROVIDE ACCESS TO LOCAL BUSINESS, ETC. TEMPORARY PAVEMENT SHALL BE REMOVED AND DISPOSED OF PRIOR TO PLACEMENT OF FULL WIDTH PAVEMENT SECTION. TEMPORARY PAVING SHALL BE PER COA STD. DWG. 2415 AND PAID FOR PER COA STD. SPECIFICATIONS.

50 ALL CLASSES OF SEEDING SHALL BE DRY LAND MIX PLACED AT 1.5 LBS/1000 S.F. WITH FERTILIZER 21-12-12 PLACED AT 5 LBS/1000 S.F.

51 PRE-WETTING OF THE EMBANKMENT FOUNDATION AND KEY TRENCH SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE EMBANKMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.

52 ALL ASPHALTIC CONCRETE SHALL BE MINIMUM 1800 LB. STABILITY AND COMPACTED TO 95% MODIFIED MARSHALL DENSITY UNLESS OTHERWISE NOTED ON THE PLANS.

53 ALL RIP-RAP MATERIAL USED ON THIS PROJECT SHALL BE A NATURAL ROCK MATERIAL CONFORMING TO THE SIZE AND MATERIAL PROPERTY REQUIREMENTS SET FORTH IN THE COA STANDARD SPECIFICATIONS. NO BROKEN CONCRETE OR RUBBLE WILL BE ACCEPTED.

54 HIGH DENSITY POLYETHLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321 WITH THE EXCEPTION THAT THE MINIMUM COVER IN AREAS WITH VEHICULAR TRAFFIC SHALL BE ONE FOOT.

EXISTING FEATURES LEGEND:

- EXISTING CHAIN-LINK FENCE
- EXISTING GAS LINE W/ VALVE (2" HPG, GV)
- EXISTING WATERLINE W/ VALVE (6" W, WV)
- EXISTING WATERLINE METER
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER LINE W/ MANHOLE (8" SAS)
- EXISTING STROM DRAIN (36" RCP)
- EXISTING UTILITY POLE
- EXISTING 1' CONTOUR (44)
- EXISTING 5' CONTOUR (4945)
- EXISTING CURB & GUTTER
- EXISTING CONCRETE
- EXISTING BUILDING LINE
- EXISTING EASEMENT LINE

NEW FEATURES LEGEND:

- CONSTRUCTION CENTERLINE
- NEW CHAIN-LINK FENCE
- NEW GAS LINE W/ VALVE (2" HPG, GV)
- NEW WATERLINE W/ VALVE (6" W, WV)
- NEW WATERLINE METER
- NEW FIRE HYDRANT
- NEW SANITARY SEWER LINE W/ MANHOLE (6" SAS)
- NEW STROM DRAIN
- NEW UTILITY POLE
- NEW 1' CONTOUR (44)
- NEW 5' CONTOUR (4945)
- NEW CURB & GUTTER
- NEW CONCRETE
- NEW EASEMENT LINE
- POT HOLE LOCATION W/ NO. (1)
- NEW EDGE OF PAVEMENT

POTHOLING INFORMATION

NO.	BURY TO TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
1	1'-10"	GAS	METALLIC	2"
2	1'-10"	GAS	METALLIC	2"
3	2'-5"	WATER	METAL	1 1/4"
4	11"	WATER	METAL	1"
5	4'-8"	SAS	CONCRETE	12"
6	3'-2"	WATER	PVC	6"
7	1'-10"	WATER	PVC	2"
8	2'-0"	WATER	PVC	2"
9	3'-0"	WATER	PVC	6"
10	11"	GAS	METAL	2"
10A	9"	GAS	METAL	1"
11	3'-8"	WATER	METAL	4"
11A	3'-4"	WATER	COPPER	1"
12	2'-5"	GAS	METAL	2"
12A	2'-3"	GAS	METAL	1"
13	3'-11"	WATER	COPPER	1/2"

SYSTEM "A" CONSTRUCTION CENTERLINE SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
10+00.00	1,477,637.04	380,835.14
13+06.40	1,477,609.32	381,140.29
15+24.66	1,477,534.28	381,345.25
17+14.64	1,477,522.80	381,534.88

SYSTEM "B" CONSTRUCTION CENTERLINE SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
10+00.00	1,477,538.02	380,511.37
12+31.17	1,477,519.08	380,741.76
13+81.61	1,477,637.04	380,835.14
14+18.93	1,477,666.30	380,858.30
15+96.27	1,477,839.82	380,894.87

LOCAL SURVEY CONTROL INFORMATION

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-1	1,477,481.07	381,524.76	4958.02	MASONRY NAIL IN SIDEWALK JNT.
CP-2	1,477,589.63	381,218.12	4950.03	REBAR W/ CAP "NM 11599"
CP-3	1,477,839.49	380,892.98	4947.73	REBAR W/ CAP "NM 11599"
CP-4	1,477,636.12	380,844.18	4945.91	REBAR W/ CAP "NM 11599"
CP-5	1,477,526.86	380,749.72	4945.31	REBAR W/ CAP "NM 11599"
CP-6	1,477,530.65	380,509.97	4944.02	PK NAIL IN ASPHALT

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK INSPECTORS — DATE
ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
DRAWINGS — DATE
PREPARED BY
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS CONTROL STA. "13-L14"
3-1/4" AL CAP IN CURB
NEW MEXICO STATE PLANE COORDINATES
N=1,477,623.21
E=381,928.31
DELTA ALPHA = -00°13'36"
GROUND TO GRID FACTOR = 0.999679428
NMSP COORDINATES - CENTRAL ZONE, NAD 27

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	STEVE TOLER, SURVEYING CONTROL INC.	5/99

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
			DESIGNED BY MJR — DATE 1/00
			DRAWN BY MJR — DATE 1/00
			CHECKED BY CTB — DATE 1/00

198683
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ETHLYN AVENUE IMPROVEMENTS

GENERAL NOTES, LEGEND, & SURVEY CONTROL

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No. 5744.90 | Zone Map No. L-14 | Sheet 2 | Of 10

10+00 11+00 12+00 13+00

STA. 10+00.00, CL
B.O.P. SYSTEM "B"
N 1,477,537.52
E 380,517.49

CP-6

STA. 10+06.15, CL
CONSTRUCT 1-6'ø TYPE "E"
STORM DRAIN MANHOLE
RIM EL. = 4944.35
N 1,477,537.52
E 380,517.49

NOTE: BEFORE CONSTRUCTION BEGINS BETWEEN STA. 10+00.00 AND 12+32.21, VEHICULAR ACCESS MUST BE PROVIDED FROM ENGLEWOOD STREET THRU THE BARELAS DITCH. CONTRACTOR HAS A MAXIMUM OF 10 WORKING DAYS TO COMPLETE THE CONSTRUCTION FROM MANHOLE IN WILLIAMS STREET TO STA. 12+50 AND HAVE ACCESS RESTORED FROM WILLIAMS STREET.

WILLIAM STREET

CONSTRUCTION CENTERLINE
S 85°18'00" E

6" OF EXISTING MATERIAL MIXED WITH GRAVEL ON TOP OF 12" OF SUBGRADE PREPARATION – SEE SECTION ON THIS SHEET

EXISTING FENCELINE TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION

EXISTING FENCELINE TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION

POSSIBLE WATERLINE LOCATION TO BE FIELD VERIFIED BEFORE CONSTRUICTION

POSSIBLE WATERLINE LOCATION TO BE FIELD VERIFIED BEFORE CONSTRUICTION

30" HDPE PLASTIC PIPE

6" OF EXISTING MATERIAL MIXED WITH GRAVEL ON TOP OF 12" OF SUBGRADE PREPARATION – SEE SECTION ON THIS SHEET

NOTE: THE MINIMUM AMOUNT OF COVER IS AVAILABLE FOR THE 30" PLASTIC STORM DRAIN PIPE FROM MANHOLE AT STA. 12+32.21 TO MANHOLE AT STA. 13+93.80. IF FUTURE TRAFFIC IS DESIGNED FOR THIS AREA, GRADES WILL NEED TO BE ADJUSTED TO PROTECT THE STORM DRAIN SYSTEM.

EXISTING 8" VCP SANITARY SEWER TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION

STA. 12+31.17, CL
PI CONST. CENTERLINE

BARELAS DITCH

STA. 12+32.21, 1.56' RT.
CONSTRUCT 1-6'ø TYPE "C"
STORM DRAIN MANHOLE
RIM EL. = 4945.26
N 1,477,518.93
E 380,743.63

POTHOLE #13

CP-5

2-EXISTING WOOD BOLLARDS TO BE REMOVED AND REPLACED WITH 2 NEW BOLLARDS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2723.

EXISTING WOOD BOLLARD TO REMAIN UNDISTURBED

MATCHLINE STATION 13+93.80 SEE SHEET 4

STA. 13+81.61, CL
SYSTEM "B" =
B.O.P. STA. 10+00.00,
CL SYSTEM "A"
N 1477637.04
E 380835.14

CP-4

CONSTRUCTION CENTERLINE
N 38°22'02" E

30" HDPE PLASTIC PIPE

STA. 13+93.80, 8.03' RT.
CONSTRUCT 1-6'ø TYPE "C"
STORM DRAIN MANHOLE
RIM EL. = 4945.99
N 1,477,641.61
E 380,849.00

SEE SHEET 5 FOR SYSTEM "A"

NOT IN MODEL
MODEL DIA: N/A
AS-BUILT DIA: 30"

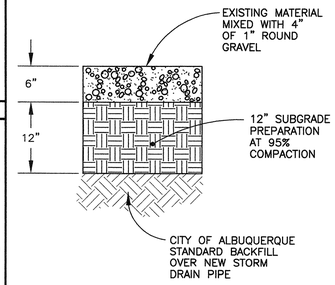
NOT IN MODEL
MODEL DIA: N/A
AS-BUILT DIA: 30"

SYSTEM "B"

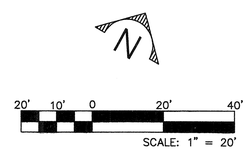
KEYED NOTES:

1. ENCASE SANITARY SEWER LINE TO 10' LEFT & RIGHT OF NEW 30" STORM DRAIN LINE – SEE C.O.A. STD. DWG. 2140
2. FILL TRENCH AND REGRADE TO MATCH EXISTING GRADE.
3. APPROXIMATE LOCATION OF EXISTING WATERLINE SERVICE. IF CONFLICT EXIST WITH NEW STORM DRAIN LINE, THE WATERLINE SHALL BE LOWERED PER DETAIL ON SHEET 7.
4. LIMITS OF PAYABLE REMOVAL AND REPLACEMENT. CONTRACTOR SHALL TAKE CAUTION IN EXPOSING ALL EXISTING UTILITY LINES. WHEN ENTIRE TRENCH IS DUG THE CONTRACTOR SHALL CONTACT ROGER MARTINEZ WITH THE CITY OF ALBUQUERQUE AT 768-3621 FOR A PROCEDURE WITH CONSTRUCTING THE NEW MANHOLE AND PLASTIC PIPE INTO THE EXISTING SYSTEM.
5. CONTRACTOR SHALL REMOVE 25' OF CURB & GUTTER AND SIDEWALK AND REPLACE WITH THE SAME.

NOTE: LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN SET ARE APPROXIMATE AND WERE OBTAINED FROM DESIGN SURVEY INFORMATION, AS-BUILTS AND POT HOLING. OTHER EXISTING UTILITIES MAY EXIST IN THE WORK AREAS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL EXISTING UTILITIES SHOWN ON PLANS PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHOWN ON THE PLANS DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES LISTED ON SHEET 1 OF THIS PLAN SET PRIOR TO CONSTRUCTION FOR AID IN LOCATING ANY EXISTING UTILITIES.



ALLEY BACKFILL SECTION
NOT TO SCALE



226.90 LF @ S=0.0277 FT/FT
1-30" HDPE PLASTIC PIPE
Q 100 = 30.50 CFS
V 100 = 11.87 FT/S

161.73 LF @ S=0.0032 FT/FT
1-30" HDPE PLASTIC PIPE
Q 100 = 30.50 CFS
V 100 = 6.94 FT/S

EXISTING 48" RCP STORM DRAIN PIPE TO REMAIN UNDITURBED

X
MODEL INVERT:
DATUM: 4934.79 + 2.67 = 4937.46

EXISTING GRADE AT CONSTRUCTION CENTERLINE

HGL

EXISTING 8" VCP SANITARY SEWER LINE

EXISTING SANITARY SEWER LINE TO REMAIN UNDISTURBED
EXISTING 6" WATERLINE TO REMAIN UNDISTURBED
STA. 10+06.15, CL
INSTALL 1-6'ø TYPE "E" STORM DRAIN MANHOLE
INV. IN (E) = 4935.07
EXIST. INV. = 4934.79
STA. 10+15.07
8" VCP SAS CROSSING
30" SD T.P. = 4938.10
SAS INV. = 4938.61
STA. 11+82.11, 64.91' RT.
EXISTING SANITARY SEWER MANHOLE
INV. = 4939.60
STA. 12+26.80
8" VCP SAS CROSSING
30" SD INV. = 4941.21
SAS T.P. = 4940.41
STA. 12+32.21, 1.56' RT.
INSTALL 1-6'ø TYPE "C" STORM DRAIN MANHOLE
CL INV. = 4941.36
STA. 13+79.44
EXISTING SANITARY SEWER MANHOLE
INV. = 4941.03
STA. 13+80.84
8" VCP SAS CROSSING
30" SD INV. = 4941.84
SAS T.P. = 4940.74
STA. 13+93.80, 8.03' RT.
INSTALL 1-6'ø TYPE "C" STORM DRAIN MANHOLE
24" INV. IN (E) = 4941.98
24" INV. IN (E) = 4941.98
30" INV. OUT (S) = 4941.88

MATCHLINE STATION 14+00 SEE SHEET 4

4965 4960 4955 4950 4945 4940 4935 4930 4925 4920

10+00 11+00 12+00 13+00 14+00

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Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ETHLYN AVENUE IMPROVEMENTS
PLAN & PROFILE: SYSTEM "B" STA. 10+00 TO 14+00

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sheet	Of
5744.90	L-14	3	10

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	STEVE TOLER, SURVEYING CONTROL INC.	5/99

BENCH MARKS
ACS CONTROL STA. "13-L14"
3-1/4" AL CAP IN CURB
NEW MEXICO STATE PLANE COORDINATES
N=1,477,623.21
E=381,928.31
DELTA ALPHA = -00°13'36"
GROUND TO GRID FACTOR = 0.999679428
NMSP COORDINATES - CENTRAL ZONE, NAD 27

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK INSPECTED BY	
INSPECTOR'S ACCEPTANCE BY	DATE
AS-BUILTED BY	DATE
VERIFICATION BY	
CORRECTIONS COMPLETED BY	DATE

MICRO-FILM INFORMATION

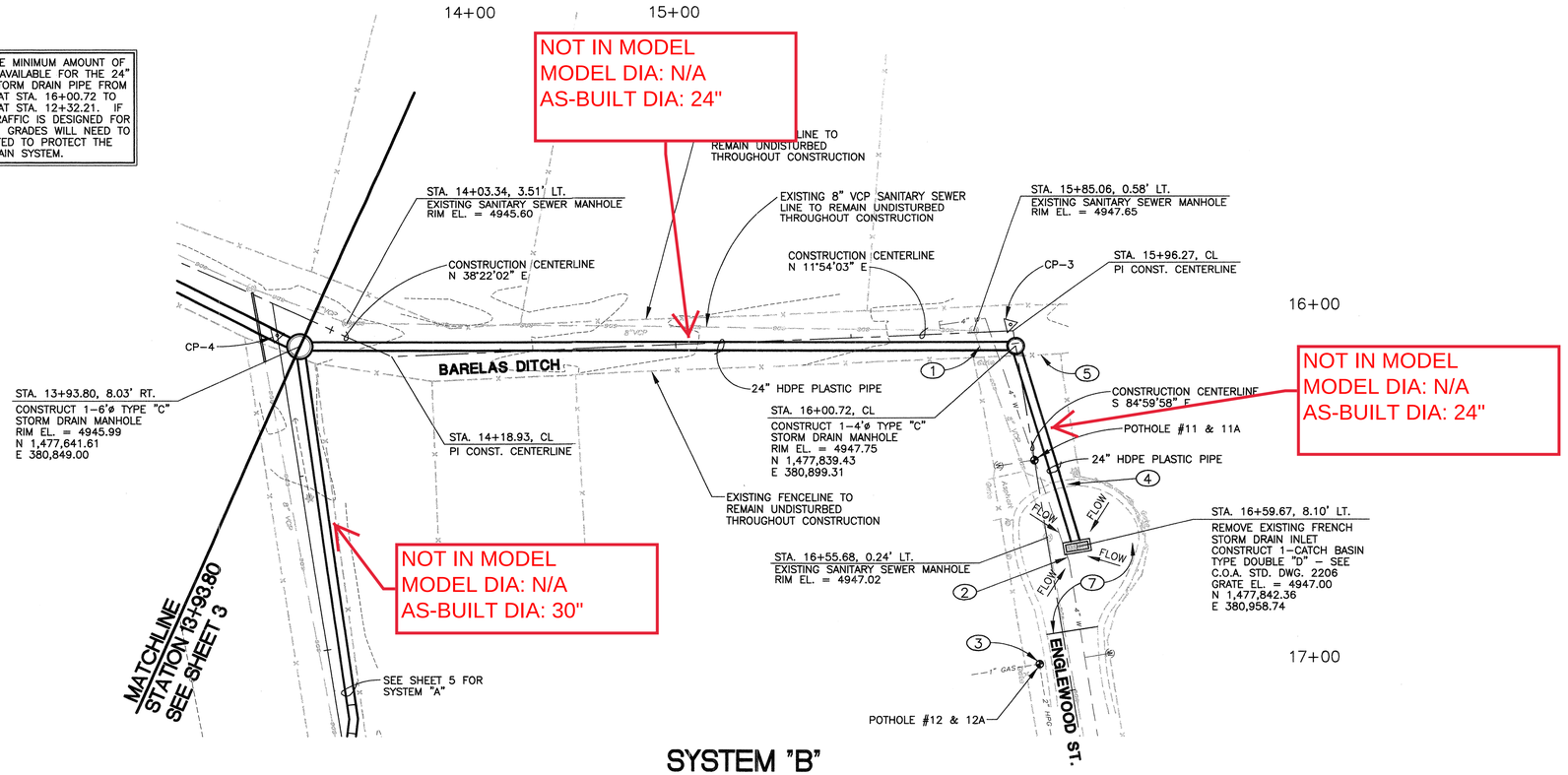
RECORDED BY	DATE
NO.	

ENGINEERS SEAL

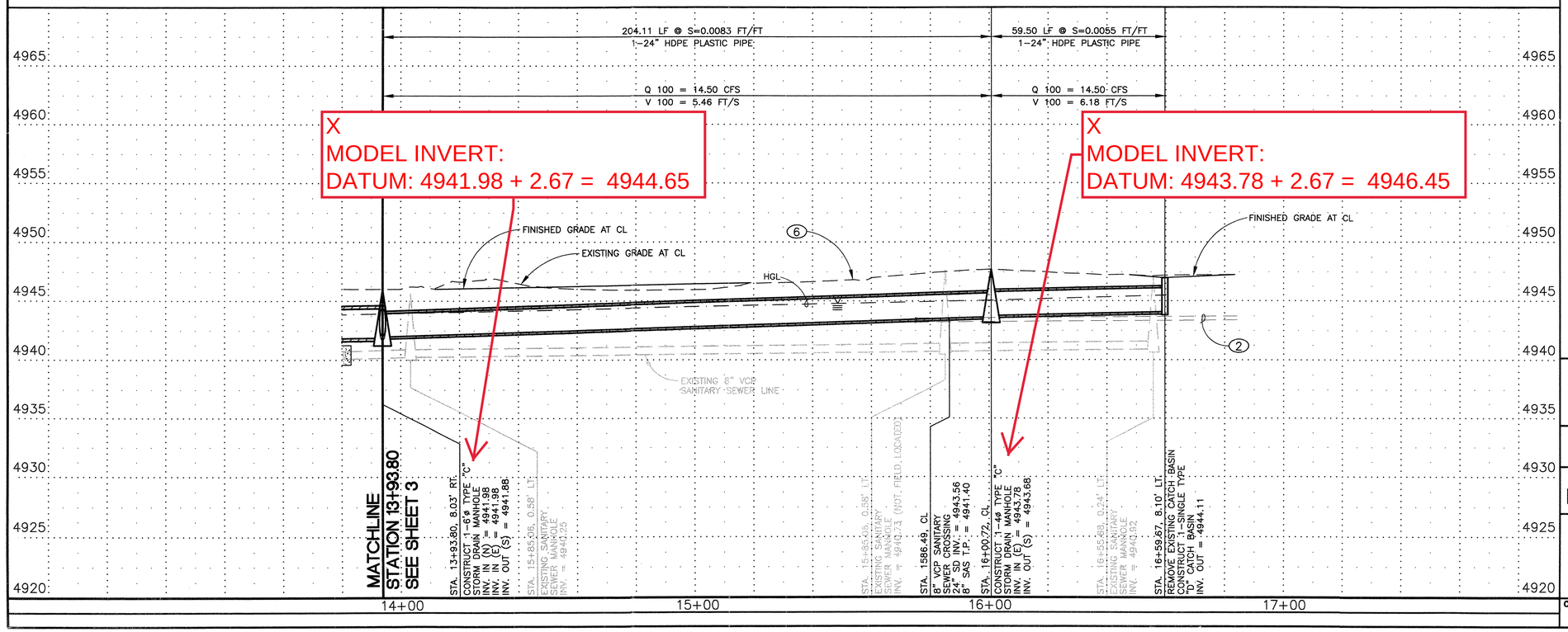
NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY MJR	DATE 1/00
		DRAWN BY MJR	DATE 1/00
		CHECKED BY CTB	DATE 1/00

N:\192383\OPTION1\03Mod01.dwg Fri Jan 21 13:00:56 2000 Michael J. Riordan

NOTE: THE MINIMUM AMOUNT OF COVER IS AVAILABLE FOR THE 24" PLASTIC STORM DRAIN PIPE FROM MANHOLE AT STA. 16+00.72 TO MANHOLE AT STA. 12+32.21. IF FUTURE TRAFFIC IS DESIGNED FOR THIS AREA, GRADES WILL NEED TO BE ADJUSTED TO PROTECT THE STORM DRAIN SYSTEM.



SYSTEM "B"



KEYED NOTES:

1. NO ENCASEMENT REQUIRED AT THIS LOCATION. VERTICAL SEPERATION OF 24" IS ACCEPTABLE.
2. RELOCATE EXISTING 4" WATERLINE (IF REQUIRED) TO THE MAXIMUM LIMIT AVAILABLE WITHIN THE TRENCH FOR THE STORM DRAIN INSTALLATION.
3. APPROXIMATE LOCATION OF GASLINE STUB. CONTRACTOR SHALL VERIFY BEFORE CONSTRUCTION.
4. REMOVE AND REPLACE A MAXIMUM OF 10 LF OF CURB & GUTTER EXISTING DRIVEPAD SHALL REMAIN UNDISTURBED.
5. REMOVE AND RESTORE 25 LF OF EXISTING CHAIN-LINK FENCE AND GATE.
6. FILL TRENCH AND REGRADE TO A MINIMUM OF 1' OF COVER OVER NEW STORM DRAIN PIPE.
7. CONTRACTOR SHALL REMOVE ALL RESIDENTIAL PAVEMENT FROM THE PC OF THE CUL-DE-SAC AND REPLACE WITH THE SAME. REGRADE ENTIRE AREA TO SLOPE INTO THE NEW INLET. EXISTING CURB AND GUTTER SHALL REMAIN UNDISTURBED. CONTRACTOR SHALL PROVIDE ACCESS TO RESIDENTS THROUGHOUT CONSTRUCTION.

NOTE: LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN SET ARE APPROXIMATE AND WERE OBTAINED FROM DESIGN SURVEY INFORMATION, AS-BUILTS AND POT HOLING. OTHER EXISTING UTILITIES MAY EXIST IN THE WORK AREAS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL EXISTING UTILITIES SHOWN ON PLANS PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHOWN ON THE PLANS DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES LISTED ON SHEET 1 OF THIS PLAN SET PRIOR TO CONSTRUCTION FOR AID IN LOCATING ANY EXISTING UTILITIES.

N

20' 10' 0 20' 40'
SCALE: 1" = 20'

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY
INSPECTORS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS REVISED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS CONTROL STA. "13-L14"
3-1/4" AL CAP IN CURB
NEW MEXICO STATE PLANE COORDINATES
N=1,477,623.21
E=381,928.31
DELTA ALPHA = -00°13'36"
GROUND TO GRID FACTOR = 0.999679428
NMSP COORDINATES - CENTRAL ZONE, NAD 27

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	STEVE TOLER, SURVEYING CONTROL INC.	5/99

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY MJR	DATE 1/00
		DRAWN BY MJR	DATE 1/00
		CHECKED BY CTB	DATE 1/00

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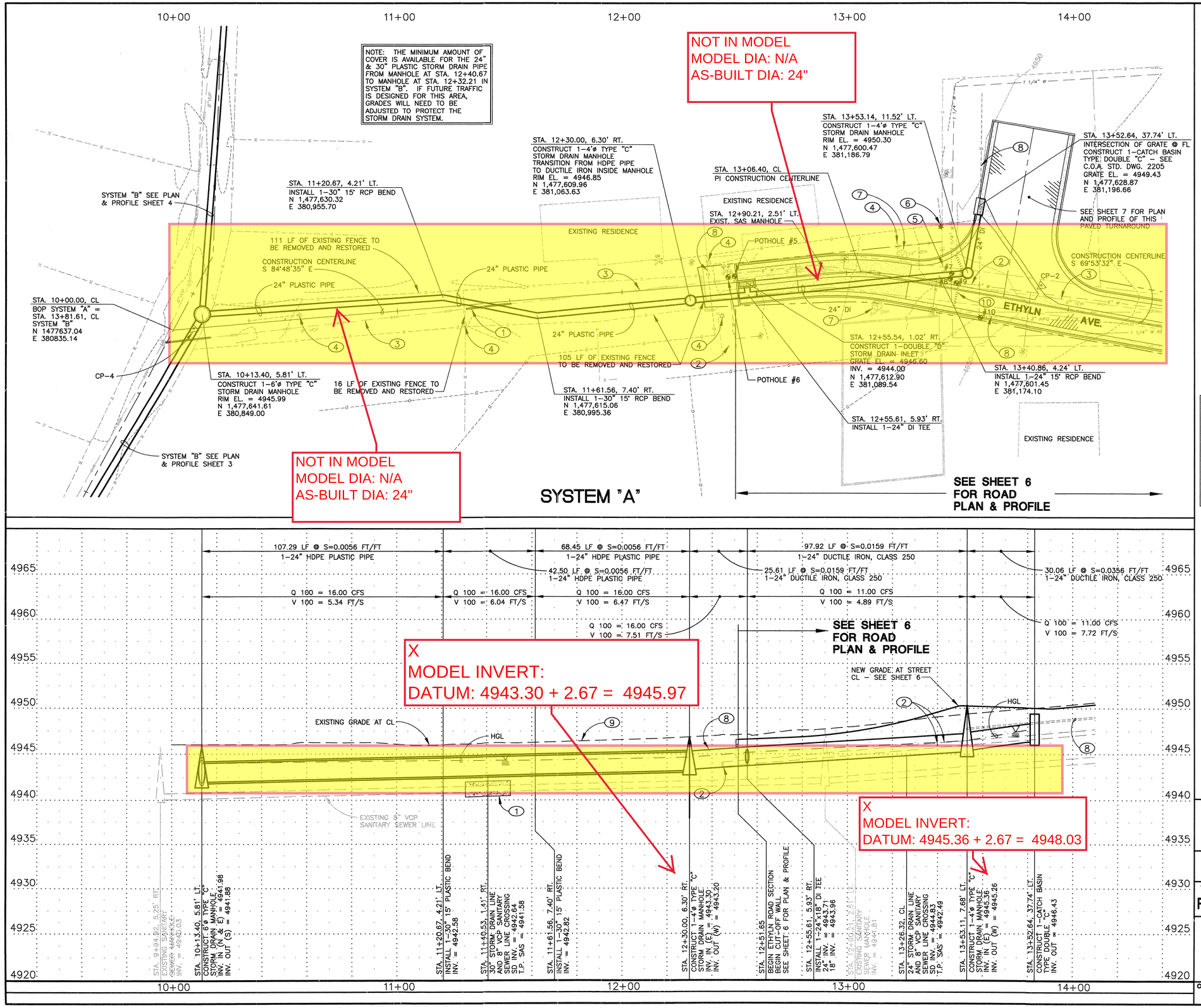
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ETHLYN AVENUE IMPROVEMENTS
PLAN & PROFILE: SYSTEM "B" STA. 13+93.80 TO 17+00

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sheet	Of
5744.90	L-14	4	10



KEYED NOTES:

1. ENCASE SANITARY SEWER LINE TO 10' LT. & RT. OF THE NEW STORM DRAIN CENTERLINE INTERSECTION.
2. APPROXIMATE LOCATION OF EXISTING WATERLINE TO BE LOWERED, SEE DTL. ON SHT. 7.
3. EXISTING 8" VCP SANITARY SEWER TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION
4. EXISTING POWER POLE & GUY WIRE TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION
5. EXISTING GUY WIRE TO REMOVED AFTER NEW UTILITY POLE IS IN PLACE. CONTRACTOR SHALL COORDINATE WITH WARREN ARTHUR FROM PNM ELECTRIC (241-3490).
6. APPROXIMATE LOCATION OF NEW UTILITY POLE TO BE INSTALLED BY PNM.
7. EXISTING TREE TO BE REMOVED.
8. EXISTING 2" HP GASLINE SHALL BE LOWERED OR RELOCATED BY PNM GAS COMPANY DURING CONSTRUCTION.
9. FILL TRENCH AND REGRADE TO A MINIMUM OF 1' OF COVER OVER NEW STORM DRAIN PIPE OR MATCH EXISTING GRADE IF IT IS GREATER.
10. HIGH POINT RIDGE - SEE SHEET 8 FOR ELEVATIONS.

NOTE: LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN SET ARE APPROXIMATE AND WERE OBTAINED FROM DESIGN SURVEY INFORMATION, AS-BUILTS AND POT HOLING. OTHER EXISTING UTILITIES MAY EXIST IN THE WORK AREAS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL EXISTING UTILITIES SHOWN ON PLANS PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHOWN ON THE PLANS DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES LISTED ON SHEET 1 OF THIS PLAN SET PRIOR TO CONSTRUCTION FOR AID IN LOCATING ANY EXISTING UTILITIES.

N

20' 10' 0 20' 40'
SCALE: 1" = 20'

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AS BUILT INFORMATION
CONTRACTOR
WORK INSPECTED BY DATE
ACCEPTANCE BY DATE
VERIFICATION BY DATE
DRAWINGS REVISED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS CONTROL STA. "13-L14"
3-1/4" AL CAP IN CURB
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NMSP COORDINATES - CENTRAL ZONE, NAD 27

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
1 STEVE TOLER, SURVEYING CONTROL INC. 5/99

ENGINEERS SEAL

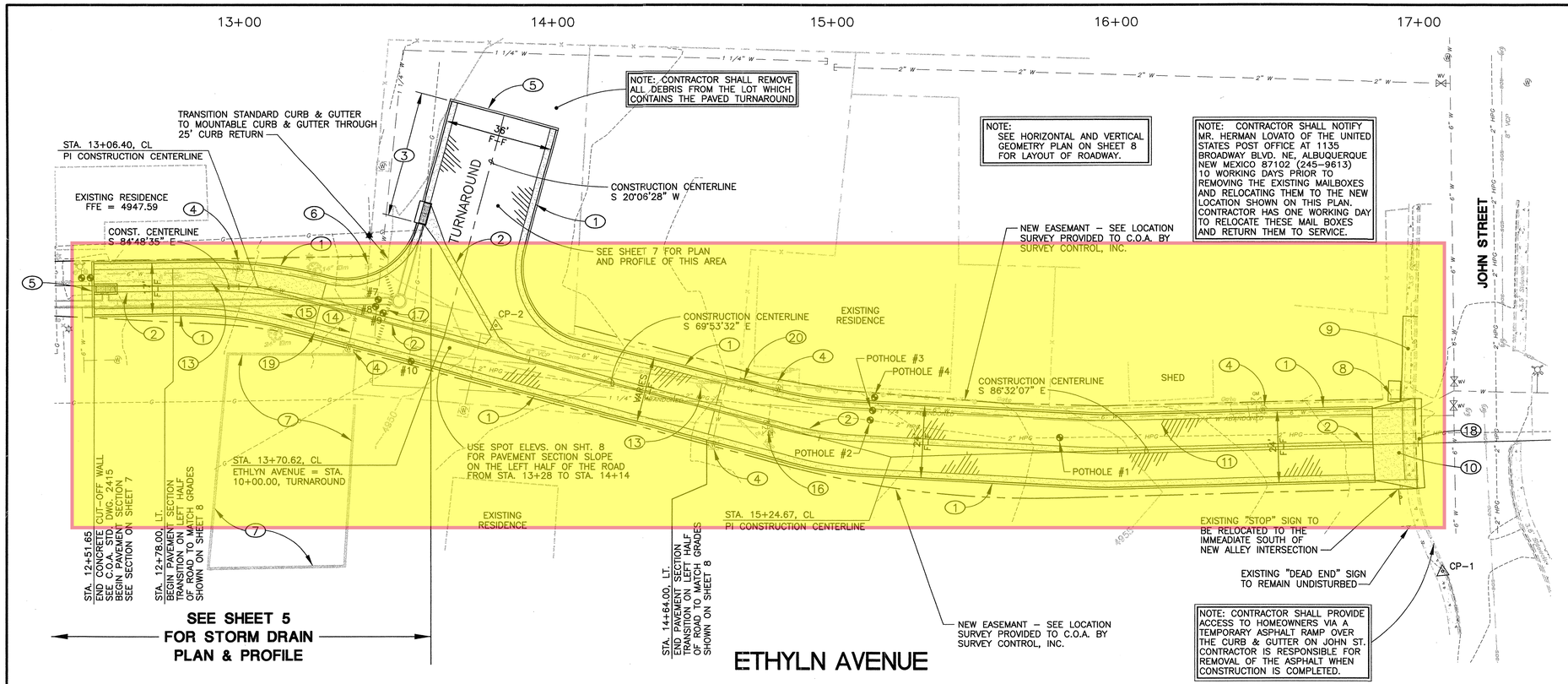
REVISIONS
NO. DATE REMARKS BY
DESIGN DESIGNED BY MJR DATE 1/00
DRAWN BY MJR DATE 1/00
CHECKED BY CTB DATE 1/00

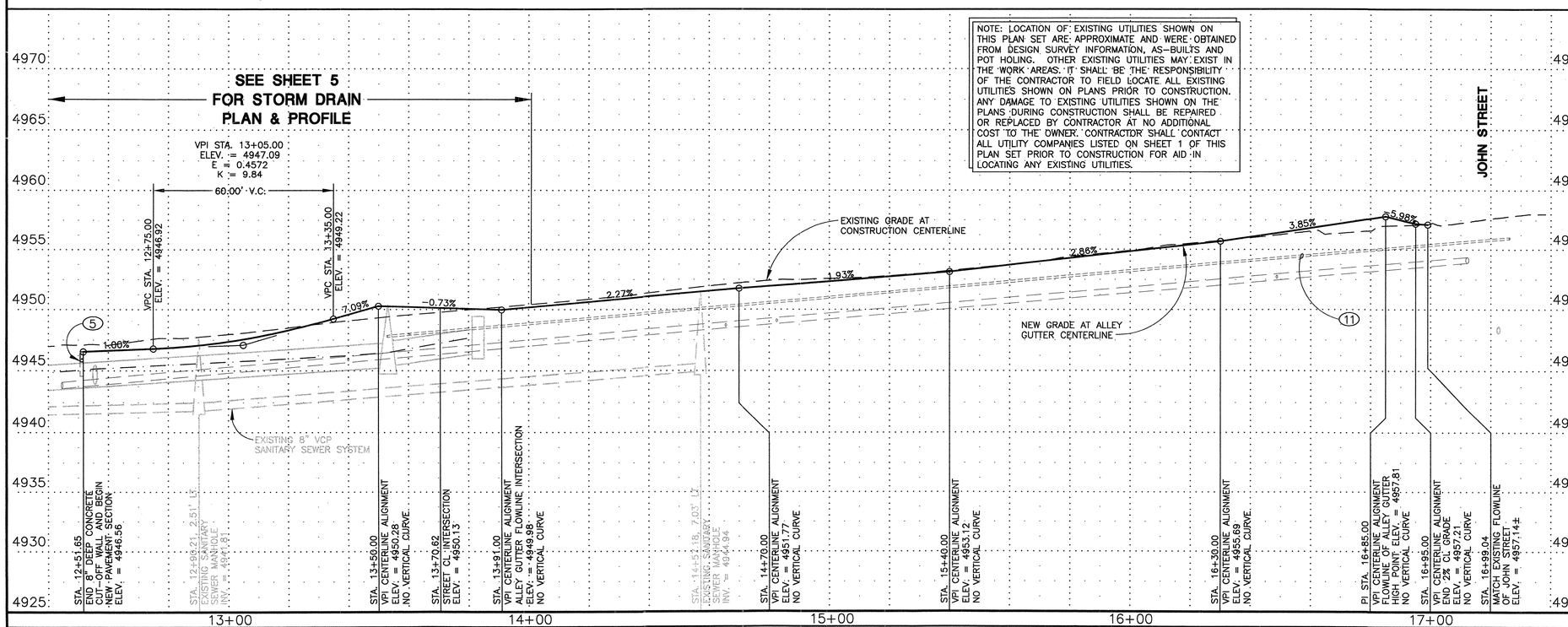
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ETHLYN AVENUE IMPROVEMENTS
PLAN & PROFILE: SYSTEM "A" STA. 10+00 TO 14+00

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sheet	Of
5744.90	L-14	5	10





NOTE: LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN SET ARE APPROXIMATE AND WERE OBTAINED FROM DESIGN SURVEY INFORMATION, AS-BUILTS AND POT HOLING. OTHER EXISTING UTILITIES MAY EXIST IN THE WORK AREAS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL EXISTING UTILITIES SHOWN ON PLANS PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHOWN ON THE PLANS DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES LISTED ON SHEET 1 OF THIS PLAN SET PRIOR TO CONSTRUCTION FOR AID IN LOCATING ANY EXISTING UTILITIES.

KEYED NOTES:

1. MOUNTABLE CURB & GUTTER WITH DEPRESSED GUTTER ON BOTH SIDES OF ETHYLN AVENUE. SEE SECTION ON SHEET 7 AND SEE C.O.A. STD. DWG. 2415.
2. ALLEY GUTTER – SEE C.O.A. STD. DWG. 2415.
3. STANDARD CURB & GUTTER SEE C.O.A. STD. DWG. 2415
4. CONTRACTOR SHALL CONFIRM THAT ALL WATER METER BOXES HAVE A HEAVYWEIGHT COVER AND LID IN ACCORDANCE WITH C.O.A. STD. DWG. 2369. IF A METER BOX DOES NOT COMPLY WITH THIS STANDARD THE CONTRACTOR SHALL REMOVE IT AND REPLACE IT WITH ONE WHICH DOES. ALL COVERS AND LIDS SHALL BE ADJUSTED TO MATCH THE NEW CURB AND GUTTER GRADE. SEE DETAIL ON SHEET 7.
5. CONCRETE CUT-OFF WALL. SEE STD. DWG. 2415. DEPTH OF WALL SHALL BE ADJUSTED OVER NEW STORM DRAIN LINE SEE DTL. ON SHT. 7.
6. COORDINATE WITH PNM TO PROVIDE SHORING FOR EXISTING UTILITY POLE BEFORE GUY WIRE IS REMOVED.
7. EXISTING ADOBE WALL TO REMAIN UNDISTURBED THROUGHOUT CONST.
8. EXISTING MAILBOXES AND CONCRETE PAD TO BE RELOCATED TO THE NEW BACK OF CURB NORTH OF ETHLYN AVENUE.
9. REMOVE EXISTING DRIVEPAD, SIDEWALK & GUTTER. REPLACE WITH 25' OF NEW STD. CURB & GUTTER AND 6' WIDE SIDEWALK PER C.O.A. STD. DWG. 2415 & 2430.
10. CONSTRUCT ALLEY INTERSECTION PER C.O.A. STANDARD DRAWING 2428. CONTRACTOR SHALL MODIFY SIDE SLOPES TO STAY WITHIN THE PROPOSED EASEMENT.
11. EXISTING 2" HP GASLINE TO BE LOWERED BY PNM GAS COMPANY DURING CONSTRUCTION.
12. NOT USED
13. CONTRACTOR SHALL REGRADE EXISTING MANHOLE RIM TO MATCH NEW PAVEMENT GRADES.
14. ASPHALT PAVEMENT SECTION PER C.O.A. STD. DWG. 2405, FLEXIBLE PAVEMENT SECTION FROM STA. 13+28.00 TO STA. 16+85.00
15. CONCRETE PAVEMENT SECTION PER C.O.A. STD. DWG. 2405, RIGID PAVEMENT SECTION FROM STA. 12+51.65 TO STA. 13+28.00
16. ABANDONED GAS AND WATER SERVICE LINES TO BE REMOVED.
17. HIGH POINT RIDGE – SEE SHEET 8 FOR ELEVATIONS.
18. SAW-CUT 2' OF EXISTING PAVEMENT AND REMOVE EXISTING DRIVEPAD & SIDEWALK. REPLACE PAVEMENT WITH SAME SECTION THAT WAS REMOVED.
19. INSTALL NEW 3/4" WATER SERVICE CONNECTION INTO EXISTING 6" WATERLINE. REMOVE EXISTING WATER SERVICE IN ETHLYN AVE.
20. REMOVE 7 LF OF EXISTING FENCE AND REPLACE 6" BEHIND NEW CURB & GUTTER.

N

20' 10' 0 20' 40'

SCALE: 1" = 20'

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AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
STARTED BY
ACCEPTANCE BY DATE
VERIFICATION BY DATE
DRAWINGS BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS CONTROL STA. "13-L14"
3-1/4" AL. CAP IN CURB
NEW MEXICO STATE PLANE COORDINATES
N=1,477,623.21
E=381,928.31
DELTA ALPHA = -00°13'36"
GROUND TO GRID FACTOR = 0.999679428
NMSP COORDINATES – CENTRAL ZONE, NAD 27

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
1 STEVE TOLER, SURVEYING CONTROL INC. 5/99

ENGINEERS SEAL

REVISIONS
NO. DATE REMARKS BY
DESIGN DATE 1/00 DESIGNED BY MJR
DRAWN BY MJR DATE 1/00
CHECKED BY CTB DATE 1/00

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ETHLYN AVENUE IMPROVEMENTS
PLAN & PROFILE: ETHLYN AVE. STA. 12+50 TO 17+00

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sheet	Of
5744.90	L-14	6	10

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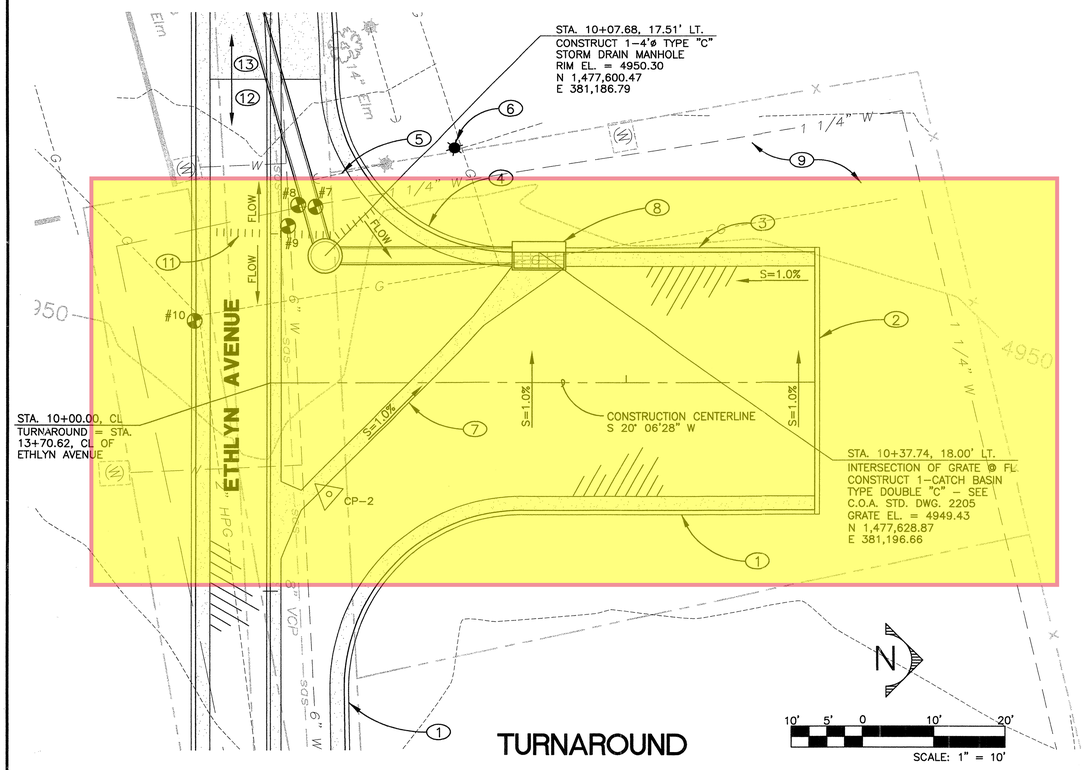
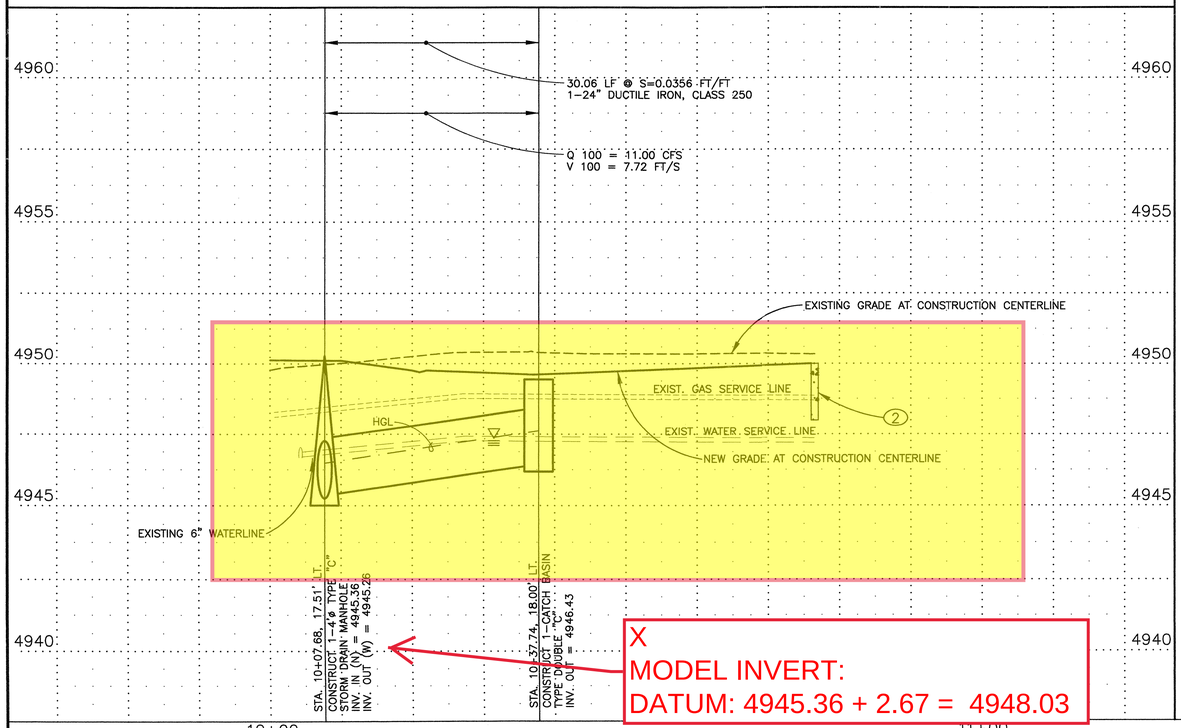
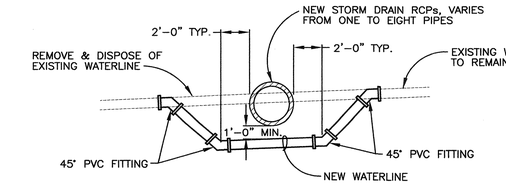


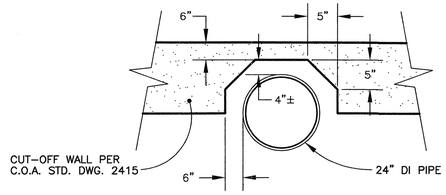
TURNAROUND





WATERLINE LOWERING DETAIL

NOT TO SCALE

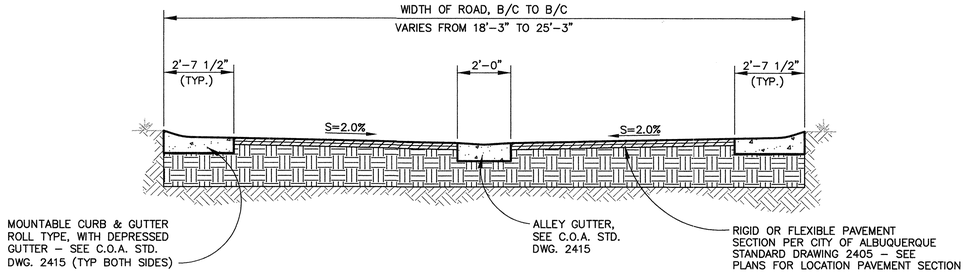


CUT–OFF WALL AT PIPE CROSSING

NOT TO SCALE

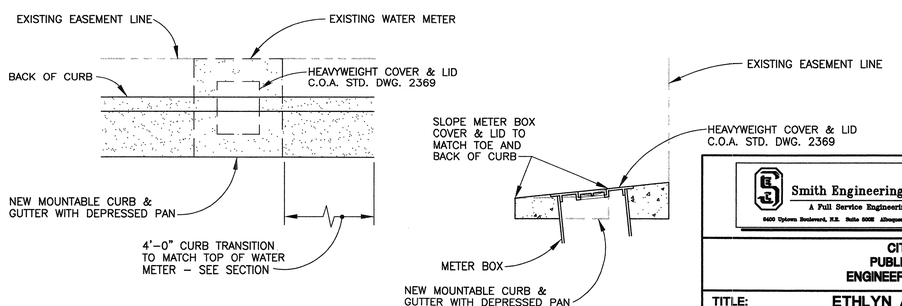
KEYED NOTES:

1. MOUNTABLE CURB & GUTTER WITH DEPRESSED GUTTER ON BOTH SIDES OF ETHLYN AVENUE. SEE SECTION ON THIS SHEET AND SEE C.O.A. STD. DWG. 2415.
2. CONCRETE CUT–OFF WALL. SEE C.O.A. STD. DWG. 2415.
3. STANDARD CURB & GUTTER. SEE C.O.A. STD. DWG. 2415.
4. TRANSITION STANDARD CURB & GUTTER TO MOUNTABLE CURB & GUTTER THROUGH CURB RETURN.
5. EXISTING GUY WIRE TO BE REMOVED AFTER NEW POLE IS IN PLACE. CONTRACTOR SHALL COORDINATE WITH WARREN ARTHUR FROM PNM ELECTRIC COMPANY (241–3490).
6. APPROXIMATE LOCATION OF NEW UTILITY POLE TO BE INSTALLED BY PNM ELECTRIC COMPANY.
7. ALLEY GUTTER – SEE C.O.A. STANDARD DRAWING 2415.
8. NEW DOUBLE "C" INLET SHALL BE INSTALLED WITH STANDARD CURB & GUTTER.
9. EXISTING UTILITY LINES ARE SHOWN AT AN APPROXIMATE LOCATION AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
10. NOT USED
11. HIGH POINT RIDGE – SEE SHEET 8 FOR ELEVATIONS.
12. ASPHALT PAVEMENT SECTION PER C.O.A. STD. DWG. 2405, FLEXIBLE PAVEMENT SECTION FROM STA. 13+28 TO STA. 16+85, ETHLYN AVE.
13. CONCRETE PAVEMENT SECTION PER C.O.A. STD. DWG. 2405, RIGID PAVEMENT SECTION FROM STA. 12+51.65 TO STA. 13+28, ETHLYN AVE.



TYPICAL ROAD SECTION – ETHLYN AVENUE

NOT TO SCALE



NOTE: USE CITY OF ALBUQUERQUE STANDARD DRAWINGS 2362 AND 2369 FOR WATER SERVICE LINE CONNECTION AND APPROPRIATE MATERIALS

WATER METER ADJUSTMENT DETAIL

NOT TO SCALE

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTORS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS REVISED BY — DATE

MICRO–FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

ACS CONTROL STA. "13–L14"
3–1/4" AL CAP IN CURB
NEW MEXICO STATE PLANE COORDINATES
N=1,477,623.21
E=381,928.31
DELTA ALPHA = –00°13'36"
GROUND TO GRID FACTOR = 0.999679428
NMSP COORDINATES – CENTRAL ZONE, NAD 27

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	STEVE TOLLER, SURVEYING CONTROL INC.	5/99

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY MJR	DATE 1/00
		DRAWN BY MJR	DATE 1/00
		CHECKED BY CTB	DATE 1/00

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ETHLYN AVENUE IMPROVEMENTS
DETAIL SHEET

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sheet	Of
5744.90	L-14	7	10

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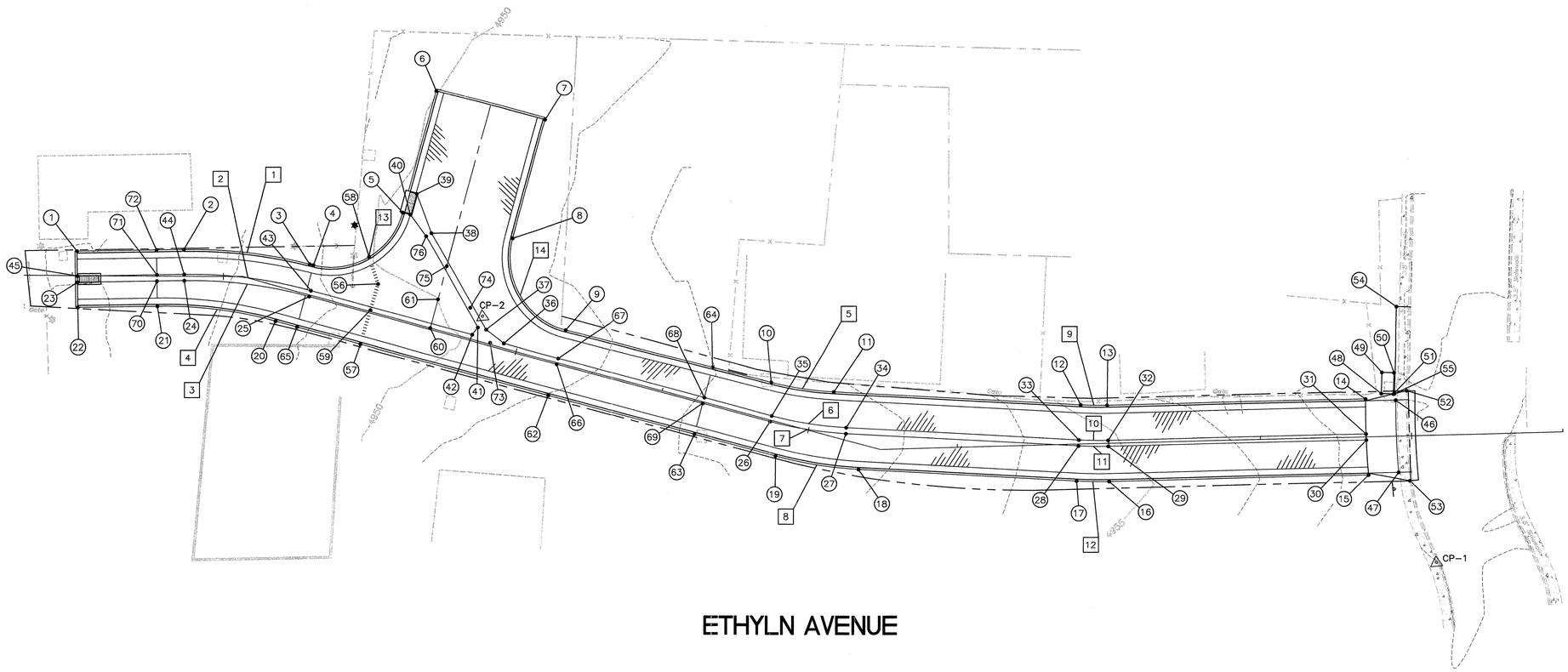


KEYED NOTES:

1. HIGH POINT RIDGE
2. SEE SHEET 2 FOR CONTROL POINT INFORMATION.

ETHYLN AVENUE

SPOT DATA

SPOT#	NORTHING	EASTING	ELEV.	DESC.
1	1477622.28	381086.32	4947.00	Top Back Curb
2	1477619.79	381121.58	4947.42	Top Back Curb
3	1477611.34	381162.71	4949.11	Top Back Curb
4	1477610.93	381163.88	4949.08	Top Back Curb
5	1477625.57	381194.78	4950.10	Top Back Curb
6	1477665.48	381209.40	4950.49	Top Back Curb
7	1477652.67	381244.38	4950.45	Top Back Curb
8	1477614.06	381230.24	4950.04	Top Back Curb
9	1477582.66	381245.11	4950.89	Top Back Curb
10	1477559.65	381311.19	4952.53	Top Back Curb
11	1477554.71	381331.54	4952.95	Top Back Curb
12	1477543.21	381412.28	4955.06	Top Back Curb
13	1477542.33	381420.94	4955.34	Top Back Curb
14	1477537.17	381506.18	4958.32	Top Back Curb
15	1477511.95	381504.95	4958.32	Top Back Curb
16	1477517.13	381419.41	4955.34	Top Back Curb
17	1477518.21	381408.72	4955.06	Top Back Curb
18	1477528.37	381337.39	4953.23	Top Back Curb
19	1477535.14	381310.48	4952.69	Top Back Curb
20	1477593.98	381149.85	4948.80	Top Back Curb
21	1477602.22	381111.30	4947.27	Top Back Curb
22	1477604.07	381085.04	4947.00	Top Back Curb
23	1477612.18	381085.61	4946.62	Top Lip of Alley Gutter
24	1477609.69	381120.87	4947.04	Top Lip of Alley Gutter
25	1477600.97	381161.64	4948.89	Top Lip of Alley Gutter
26	1477546.73	381309.72	4952.16	Top Lip of Alley Gutter
27	1477540.56	381334.27	4952.64	Top Lip of Alley Gutter
28	1477529.72	381410.36	4954.61	Top Lip of Alley Gutter
29	1477528.73	381420.11	4954.89	Top Lip of Alley Gutter
30	1477523.58	381505.24	4957.87	Top Lip of Alley Gutter
31	1477525.58	381505.34	4957.87	Top Lip of Alley Gutter
32	1477530.73	381420.24	4954.89	Top Lip of Alley Gutter
33	1477531.70	381410.64	4954.61	Top Lip of Alley Gutter
34	1477542.54	381334.55	4952.64	Top Lip of Alley Gutter
35	1477548.61	381310.41	4952.16	Top Lip of Alley Gutter
36	1477580.12	381224.37	4950.14	Top Lip of Alley Gutter
37	1477585.13	381218.93	4949.99	Top Lip of Alley Gutter
38	1477618.07	381203.65	4949.63	Top Lip of Alley Gutter
39	1477631.39	381199.97	4949.43	Top Lip of Alley Gutter
40	1477624.67	381197.25	4949.43	Top Lip of Alley Gutter

SPOT DATA

SPOT#	NORTHING	EASTING	ELEV.	DESC.
41	1477586.10	381216.28	4949.97	Top Lip of Alley Gutter
42	1477583.85	381214.20	4950.09	Top Lip of Alley Gutter
43	1477602.85	381162.33	4948.89	Top Lip of Alley Gutter
44	1477611.69	381121.01	4947.04	Top Lip of Alley Gutter
45	1477614.17	381085.75	4946.62	Top Lip of Alley Gutter
46	1477535.94	381516.11	See Note*	Top 2% Slope to John St.
47	1477511.97	381514.95	See Note*	Top 2% Slope to John St.
48	1477538.51	381511.53	Match Exist.	Top Concrete for Relocated Post Office Box
49	1477545.47	381512.34	Match Exist.	Top Concrete for Relocated Post Office Box
50	1477545.00	381516.32	Match Exist.	Top Concrete for Relocated Post Office Box
51	1477538.05	381515.51	Match Exist.	Top Concrete for Relocated Post Office Box
52	1477538.76	381519.93	Match Exist.	Top Back of Exist. Curb & New Concrete
53	1477508.82	381518.45	Match Exist.	Top Back of Exist. Curb & New Concrete
54	1477566.42	381518.97	Match Exist.	Top New Concrete Sidewalk
55	1477538.10	381515.84	Match Exist.	Top New Concrete Sidewalk
56	1477603.04	381184.66	4950.34	Top Pavement – High Point
57	1477583.99	381177.11	4950.77	Top Back of Curb – High Point
58	1477611.98	381182.44	4950.87	Top Back of Curb – High Point
59	1477594.80	381181.40	4950.28	Alley Gutter FL – High Point
60	1477587.24	381200.59	4950.13	CL Intersection of Ethlyn Ave. & Turnaround
61	1477596.33	381203.92	4950.11	Top pavement – Extended Ethlyn Ave. Flowline
62	1477561.87	381237.50	4950.89	Top Back Curb
63	1477544.68	381284.45	4952.12	Top Back Curb
64	1477566.22	381292.34	4952.12	Top Back Curb–Begin Left Side Vertical Transition
65	1477591.45	381156.75	4949.08	Top Back Curb
66	1477571.85	381241.15	4950.56	Top Lip of Alley Gutter
67	1477573.73	381241.84	4950.56	Top Lip of Alley Gutter
68	1477556.53	381288.79	4951.70	Top Lip of Alley Gutter
69	1477554.65	381288.10	4951.70	Top Lip of Alley Gutter
70	1477610.33	381111.87	4946.89	Top Lip of Alley Gutter
71	1477612.32	381112.01	4946.89	Top Lip of Alley Gutter
72	1477620.43	381112.58	4947.27	Top Back Curb–End Left Side Vertical Transition
73	1477580.70	381219.88	4949.98	Alley Gutter FL Intersection
74	1477592.72	381214.31	4949.85	Alley Gutter FL @ Extended FL of Ethlyn Ave.
75	1477606.83	381207.76	4949.69	Alley Gutter FL @ CL Intersection of Turnaround
76	1477617.23	381201.83	4949.63	Top Lip of Alley Gutter

*NOTE: THESE ELEVATIONS WILL BE DETERMINED BY USING THE EXISTING JOHN ST. ELEVATIONS PLUS A 2.0% SLOPE FOR FOUR (4) FEET PER ADA STANDARDS.

CURVE DATA

NO.	DELTA ANGLE	RADIUS	LEN.	TAN.	CHORD BEARING	L.C.
1	15°09'43"	159.13	42.11	21.18	S 78°23'17" E	41.99
2	16°05'09"	151.00	42.39	21.34	S 77°55'34" E	42.25
3	16°05'09"	149.00	41.83	21.05	S 77°55'34" E	41.69
4	16°05'09"	140.88	39.55	19.91	S 77°55'34" E	39.42
5	11°05'02"	108.38	20.97	10.52	S 76°20'57" E	20.93
6	12°00'28"	119.00	24.94	12.52	S 75°53'14" E	24.89
7	12°00'28"	121.00	25.36	12.73	S 75°53'14" E	25.31
8	12°00'28"	132.62	27.79	13.95	S 75°53'14" E	27.74
9	04°38'39"	107.37	8.70	4.35	S 84°12'47" E	8.70
10	04°38'39"	119.00	9.65	4.83	S 84°12'47" E	9.64
11	04°38'39"	121.00	9.81	4.91	S 84°12'47" E	9.81
12	04°38'39"	132.63	10.75	5.38	S 84°12'47" E	10.75
13	89°04'34"	24.38	37.90	23.99	N 64°39'17" E	34.19
14	90°55'26"	24.38	38.68	24.77	S 25°20'43" E	34.75

N

20' 10' 0 20' 40'

SCALE: 1" = 20'

198683

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ETHLYN AVENUE IMPROVEMENTS

HORIZONTAL & VERTICAL GEOMETRY PLAN

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No. 5744.90 | Zone Map No. L-14 | Sheet 8 Of 10

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	STEVE TOLER, SURVEYING CONTROL INC.	5/99

BENCH MARKS

ACS CONTROL STA. "13–L14"
3-1/4" AL. CAP IN CURB
NEW MEXICO STATE PLANE COORDINATES
N=1,477,623.21
E=381,928.31
DELTA ALPHA = -00°13'36"
GROUND TO GRID FACTOR = 0.9996794 28
NMSP COORDINATES – CENTRAL ZONE, NAD 27

AS BUILT INFORMATION

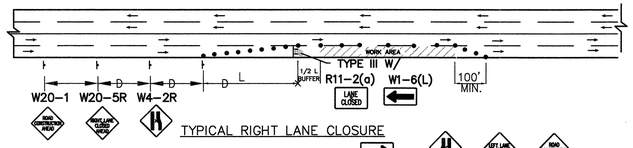
CONTRACTOR
WORK STARTED BY / DATE
INSPECTORS ACCEPTANCE BY / DATE
FIELD VERIFICATION BY / DATE
DRAWINGS CORRECTED BY / DATE
MICRO-FILM INFORMATION
RECORDED BY / DATE
NO.

ENGINEERS SEAL

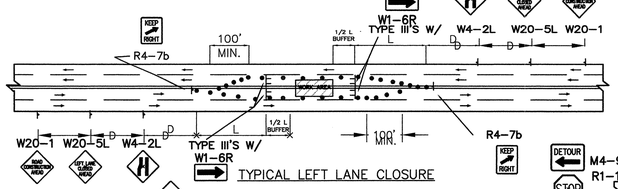
NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY M.R 1/00
DRAWN BY M.R 1/00
CHECKED BY C.T.B 1/00

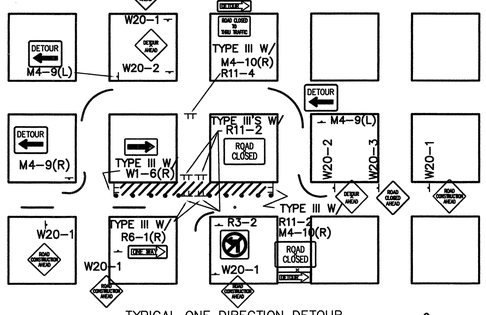
N:\1986833\OPTION\108eometry.dwg Thu Jan 20 14:55:22 2000 Michael J. Riordan



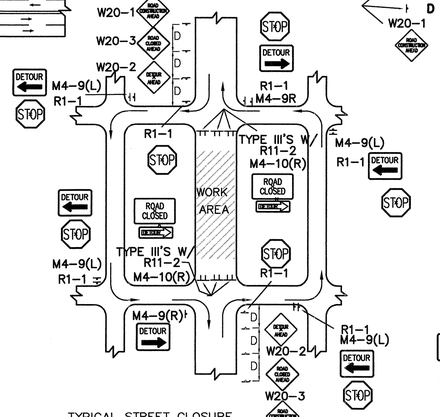
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE

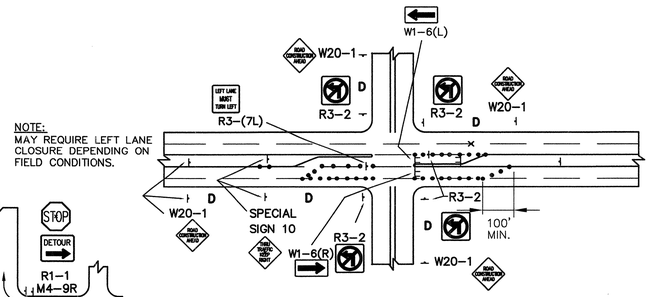


TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

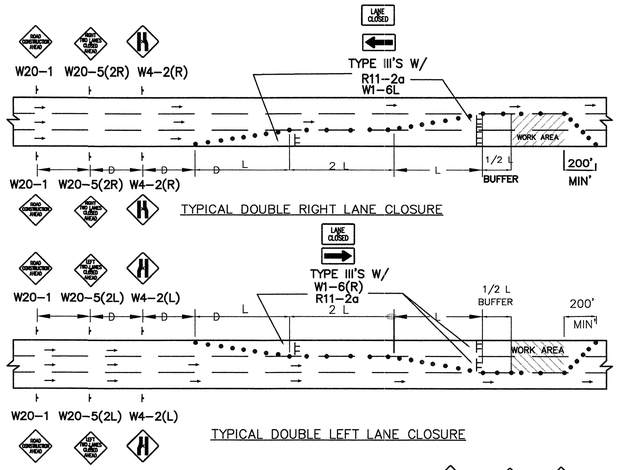
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.

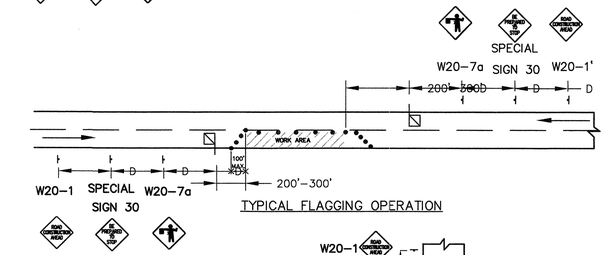
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION

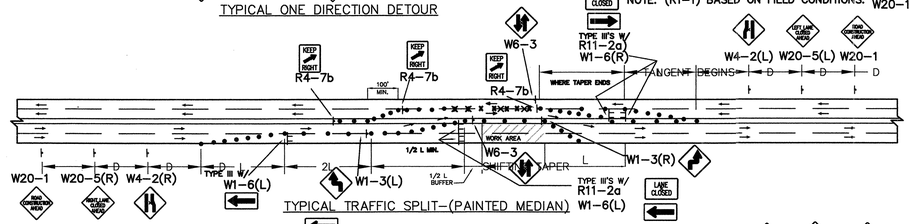


TYPICAL DOUBLE RIGHT LANE CLOSURE

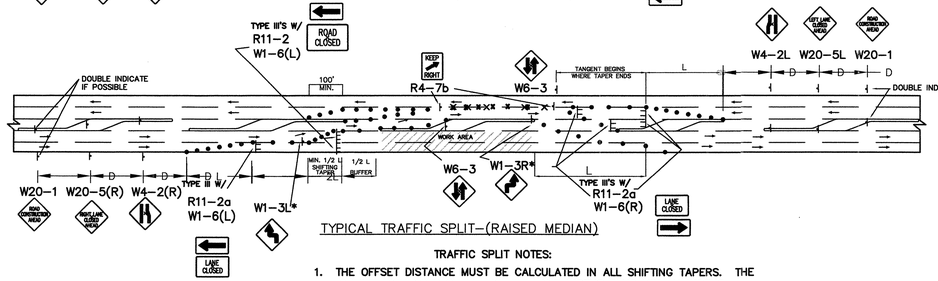
TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



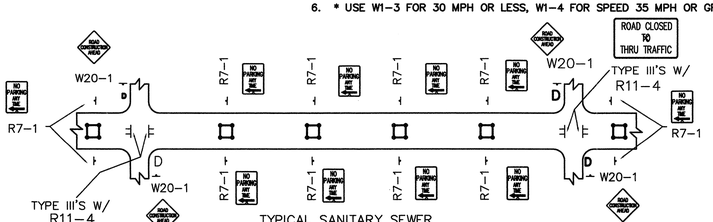
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



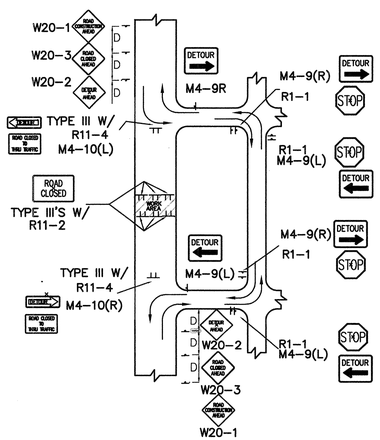
TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.

GENERAL NOTE:

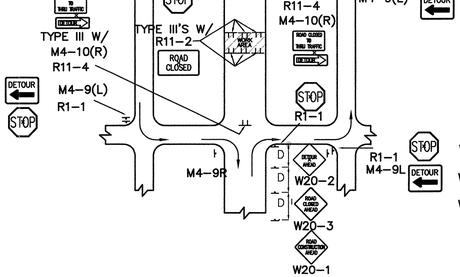
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



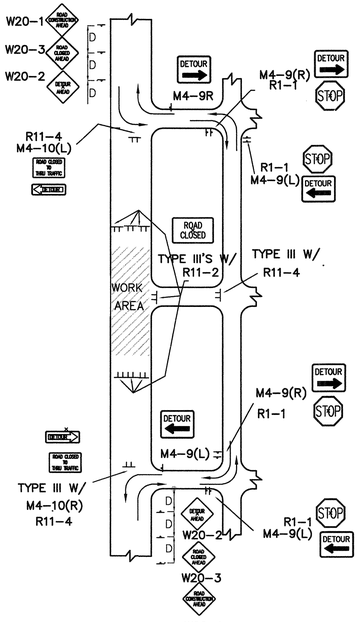
TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



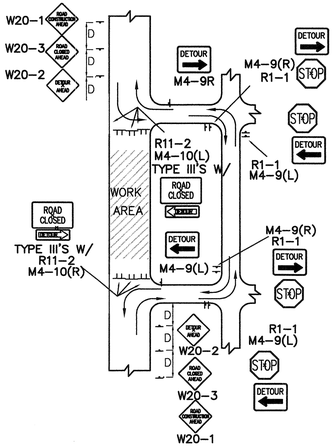
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

ENGINEERS SEAL

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK PERFORMED BY — DATE
INSPECTORS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWING CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

ACS CONTROL STA. "13-L14"
3-1/4" AL. CAP IN CURB
NEW MEXICO STATE PLANE COORDINATES
N=1,477,623.21
E=381,928.31
DELTA ALPHA = -00°13'36"
GROUND TO GRID FACTOR = 0.999679428
NMSP COORDINATES - CENTRAL ZONE, NAD 27

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	STEVE TOLER, SURVEYING CONTROL INC.	5/99

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	
	DATE 1/00	DESIGNED BY MJR	
	DATE 1/00	DRAWN BY MJR	
	DATE 1/00	CHECKED BY CTB	

198683

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ETHLYN AVENUE IMPROVEMENTS

TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sheet	Of
5744.90	L-14	9	10

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CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24-HOUR PER DAY BASIS UNTIL COMPLETED.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 48-HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
    1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
    2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
    3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

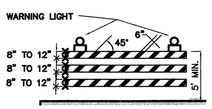
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48-INCH SIGN AS INDICATED IN THE MUTCD.

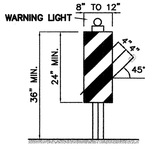
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

28. CONSTRUCTION COORDINATION DIVISION RESERVES THE RIGHT TO WITHHOLD BARRICADE AND EXCAVATION PERMITS IN ORDER TO ELIMINATE CONFLICTS WITH OTHER ON-GOING PROJECTS IN THE VICINITY OR OTHER SPECIAL EVENTS. BARRICADING PERMITS EFFECTING LANES OF TRAFFIC ON EITHER GOLF COURSE ROAD OR IRVING BOULEVARD WILL NOT BE ISSUED FOR THE PERIOD BETWEEN DECEMBER 8, 1997 UNTIL DECEMBER 28, 1997.

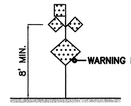


TYPE III BARRICADE

CONES



VERTICAL PANEL

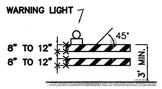


HIGH LEVEL WARNING DEVICE

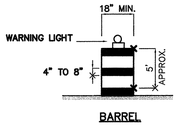
LEGEND

	WORK AREA
●	BARRICADE – TYPE I, TYPE II, OR BARREL
⫫	BARRICADE – TYPE III
✕	VERTICAL PANEL
⊣	WARNING SIGN
D	DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
◹	FLAGMAN POSITION
S	SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
L	TAPER LENGHT – SEE CHART BELOW

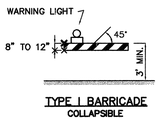
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



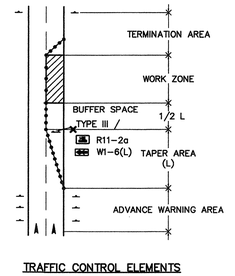
TYPE II BARRICADE
COLLAPSIBLE



BARREL



TYPE I BARRICADE
COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET) 10' LANE	11' LANE	12' LANE	MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0–20	10 X SPEED LIMIT	10 X SPEED LIMIT
25–30	10 X SPEED LIMIT	10 X SPEED LIMIT
30–35	10 X SPEED LIMIT	10 X SPEED LIMIT
40–45	10 X SPEED LIMIT	10 X SPEED LIMIT
50–60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

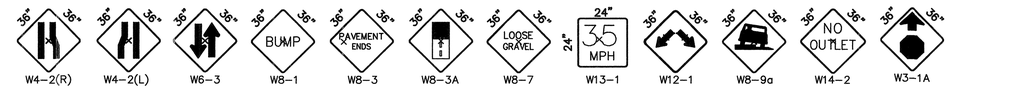
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

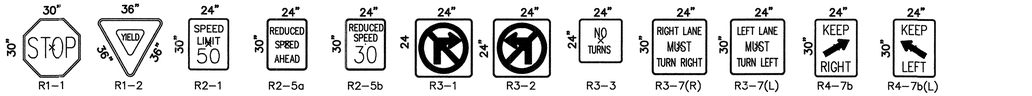
TAPER LENGTH COMPUTATION

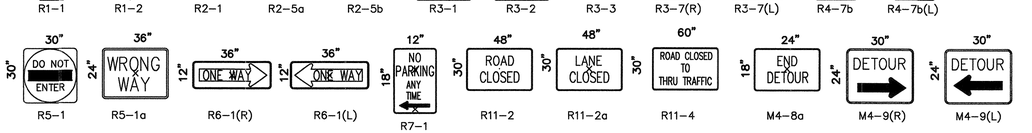
SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	L = W x S

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

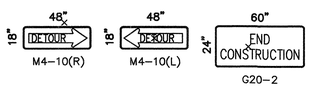
SIGN FACE DETAILS







ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.



AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
ACCEPTANCE BY DATE
VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

BENCH MARKS
ACS CONTROL STA. "13-L14"
3-1/4" AL CAP IN CURB
NEW MEXICO STATE PLANE COORDINATES
N=1,477,623.21
E=381,928.31
DELTA ALPHA = -00°13'36"
GROUND TO GRID FACTOR = 0.999679428
NMSP COORDINATES - CENTRAL ZONE, NAD 27

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	STEVE TOLER, SURVEYING CONTROL INC.	5/99

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DESIGNED BY MJR DATE 1/00
			DRAWN BY MJR DATE 1/00
			CHECKED BY CTB DATE 1/00

198683
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ETHLYN AVENUE IMPROVEMENTS

SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sheet	Of
5744.90	L-14	10	10

N:\198683\OPTION\107raf2.dwg Thu Jan 13 15:06:06 2000 Michael J. Riordan